



Water-Data Report 2008

07144795 NORTH FORK NINNESCAH RIVER AT CHENEY DAM, KS

Middle Arkansas Basin
North Fork Ninnescah Subbasin

LOCATION.--Lat 37°43'17", long 97°47'39" referenced to North American Datum of 1927, in NE ¼ SW ¼ SE ¼ sec.6, T.27 S., R.4 W., Sedgwick County, KS, Hydrologic Unit 11030014, on right bank 1,400 ft downstream from Cheney Dam, 6.0 mi north of Cheney, and at mile 15.5.

DRAINAGE AREA.--901 mi² of which 237 mi² probably is noncontributing.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder and concrete Parshall flume. Datum of gage is 1,366.02 ft above NGVD of 1929 (Bureau of Reclamation bench mark). Prior to Oct. 1, 1973, at datum 1.00 ft higher.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow completely regulated since 1964 by Cheney Reservoir (station 07144790), 1,400 ft upstream. Satellite telemeter at station.

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07144795 NORTH FORK NINNESCAH RIVER AT CHENY DAM, KS—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.4	1.1	1.1	0.18	0.07	0.12	0.47	1.7	1,120	624	1.4	1.4
2	1.4	1.1	1.0	0.18	0.07	0.42	0.51	254	1,110	624	1.4	1.4
3	1.3	1.1	1.1	0.20	0.08	0.18	0.54	663	1,110	621	1.4	1.4
4	1.3	1.1	1.0	0.19	0.10	250	0.50	662	852	619	1.4	1.3
5	1.2	1.1	1.0	0.18	0.14	635	0.58	657	595	620	1.4	1.5
6	1.2	1.1	1.0	0.17	0.13	632	0.56	656	370	623	1.4	1.6
7	1.1	1.2	0.98	0.17	0.10	369	301	656	263	623	1.4	1.3
8	1.2	1.2	e0.90	0.16	0.09	1.2	582	656	264	620	1.4	1.4
9	1.1	1.2	e0.90	0.17	0.09	0.95	253	658	268	621	1.5	1.4
10	1.1	1.2	1.0	0.17	0.08	157	1.3	661	101	619	1.5	1.4
11	1.1	1.2	1.3	0.15	0.09	298	1.1	660	1.6	333	1.6	1.5
12	1.2	1.1	0.89	0.15	0.09	296	1.0	869	1.6	1.6	1.5	2.7
13	1.0	1.1	0.84	0.15	0.10	112	1.0	1,170	1.6	1.5	1.5	1.7
14	1.1	0.96	0.87	0.14	0.14	1.1	1.0	1,160	1.5	1.5	1.8	1.5
15	1.0	0.91	0.98	0.15	0.13	1.0	1.00	1,150	1.5	1.4	1.6	1.5
16	0.99	0.95	0.67	e0.13	0.13	0.92	0.80	1,150	1.7	1.4	1.6	1.5
17	1.2	0.96	0.59	e0.13	0.25	1.1	0.95	1,140	1.4	1.5	1.6	1.4
18	1.1	1.0	0.65	e0.12	0.13	0.87	0.88	1,130	1.7	1.6	1.6	1.4
19	0.99	1.0	0.63	e0.12	0.13	0.76	0.92	1,130	1.4	1.5	1.6	1.5
20	1.0	1.1	0.61	e0.11	0.13	0.69	1.1	1,130	1.4	1.4	1.6	1.4
21	1.0	0.97	0.60	e0.10	0.13	0.66	1.1	1,130	1.4	1.4	1.6	1.4
22	0.97	1.0	0.81	e0.10	0.12	0.65	1.1	1,120	1.4	1.4	1.5	1.5
23	1.0	1.0	0.50	0.10	0.13	0.64	1.5	706	1.4	1.4	1.5	1.4
24	1.0	1.0	0.36	0.09	0.14	0.66	1.3	269	1.4	1.4	1.7	138
25	1.0	1.0	0.33	0.09	0.14	0.58	1.2	266	1.4	1.4	1.6	261
26	1.1	1.0	0.30	0.07	0.14	0.54	1.3	269	1.4	1.7	1.6	260
27	1.0	1.0	0.28	0.08	0.11	0.55	1.3	101	1.9	1.5	1.5	261
28	1.1	1.0	0.23	0.09	0.12	0.51	1.3	2.1	1.6	1.4	1.5	260
29	1.1	1.0	0.20	0.09	0.12	0.52	1.4	553	1.4	1.5	1.4	260
30	1.1	1.0	0.20	0.07	---	0.53	1.5	1,120	312	1.5	1.4	261
31	0.98	---	0.20	0.15	---	0.55	---	1,110	---	1.4	1.5	---
Mean	1.11	1.05	0.71	0.13	0.12	89.2	38.8	737	213	212	1.52	57.9
Max	1.4	1.2	1.3	0.20	0.25	635	582	1,170	1,120	624	1.8	261
Min	0.97	0.91	0.20	0.07	0.07	0.12	0.47	1.7	1.4	1.4	1.4	1.3
Ac-ft	68	63	44	8.2	6.8	5,480	2,310	45,340	12,680	13,040	93	3,440

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	95.3	110	55.1	61.2	95.1	150	214	212	220	124	24.9	67.5
Max	1,054	1,782	334	360	569	681	933	1,142	1,504	1,162	377	973
(WY)	(1974)	(1980)	(1993)	(1998)	(1993)	(2001)	(1973)	(1993)	(1995)	(1987)	(1993)	(1977)
Min	0.04	0.04	0.03	0.02	0.04	0.06	0.09	0.14	0.10	0.12	0.11	0.03
(WY)	(2007)	(2007)	(2007)	(2002)	(2002)	(2002)	(2006)	(1965)	(1966)	(1966)	(1985)	(2000)

07144795 NORTH FORK NINNESCAH RIVER AT CHENEY DAM, KS—Continued**SUMMARY STATISTICS**

	Calendar Year 2007		Water Year 2008		Water Years 1965 - 2008	
Annual mean	152		114		119	
Highest annual mean					406	1993
Lowest annual mean					0.24	2002
Highest daily mean	1,320	Jun 6	1,170	May 13	1,910	Apr 30, 1969
Lowest daily mean	0.01	Jan 17	0.07	Jan 26	0.00	May 18, 1966
Annual seven-day minimum	0.01	Jan 17	0.08	Jan 24	0.00	Aug 16, 1980
Maximum peak flow			1,200	May 12	2,070	Nov 13, 1979
Maximum peak stage			5.01	May 12	5.51	Jul 13, 1987
Instantaneous low flow			0.06	Jan 26	0.00	at times
Annual runoff (ac-ft)	109,700		82,580		86,200	
10 percent exceeds	904		620		384	
50 percent exceeds	1.1		1.2		0.50	
90 percent exceeds	0.04		0.13		0.13	

